

Fig.1.

	11	21	31	41	51
Rs-AFP1	QKLCERPSGT	WSGVCNNNA	CKNQCNLEK	ARHGSCNYVF	PAHKCICYFP C
Rs-AFP2	QKLCQRPSGT	WSGVCNNNA	CKNQCIRLEK	ARHGSCNYVF	PAHKCICYFP C
Rs-AFP3	-KLCERSSGT	WSGVCNNNA	CKNQCIRLEG	AQHGSCNYVF	PAHKCICYFP C
Rs-AFP4	QKLCERSSGT	WSGVCNNNA	CKNQCNINLEG	ARHGSCNYIF	PYHRCICYFP C
Br-AFP1	QKLCERPSGT	WSGVCNNNA	CKNQCN		
Br-AFP2	QKLCERPSGT	?SGVCNNNA	CKNQCIR		
Bn-AFP1	QKLCERPSGT	WSGVCNNNA	CKNQCNLEK		
Bn-AFP2	QKLCERPSGT	WSGVCNNNA	CKN		
Sa-AFP1	QKLCERPSGT	WSGVCNNNA	CKNQC		
Sa-AFP2	QKLCQRPSGT	WSGVCNNNA	CRNQCI		
At-AFP1	QKLCERPSGT	WSGVCNSNA	CKNQCN		

Fig.2. 45 G T T T A T T A G T G A T C A T G G C T A A G T T T G C G T C C A T C A T C G C A C T T  
M A K F A S I I A L

90 C T T T T G C T C T C T T G T T C T T T T T G C T G C T T T C G A A G C A C C A A C A  
L F A A L V L F A A F E A E T

135 A T G G T G G A A G C A C A G A A G T T G T G C G A A A G G C C A A G T G G G A C A T G G  
M V E A Q K L C E R P S G T W

180 T C A G G A G T C T G T G G A A C A A T A A C G C A T G C A A G A A T C A G T G C A T T  
S G V C G N N N A C K N Q C I

225 A A C C T T G A G A A G C A C G A C A T G G A T C T T G C A A C T A T G T C T T C C C A  
N L E K A R H G S C N Y V F P

270 G C T C A C A A G T G T A T C T G C T A C T T T C C T T G T I A A T T T A T C G C A A A C  
A H K C I C Y F P C \*

315 T C T T T G G T G A A T A G T T T T A T G T A A T T T A C A C A A A A T A A G T C A G T

360 G T C A C T A T C C A T G A G T G A T T T T A A G A C A T G T A C C A G A T A T G T T A T

405 G T T G G T T C G G T T A T A C A A A T A A A G T T T T A T T C A C C A A A A A A A A A A  
A A A A A A A A A A

414

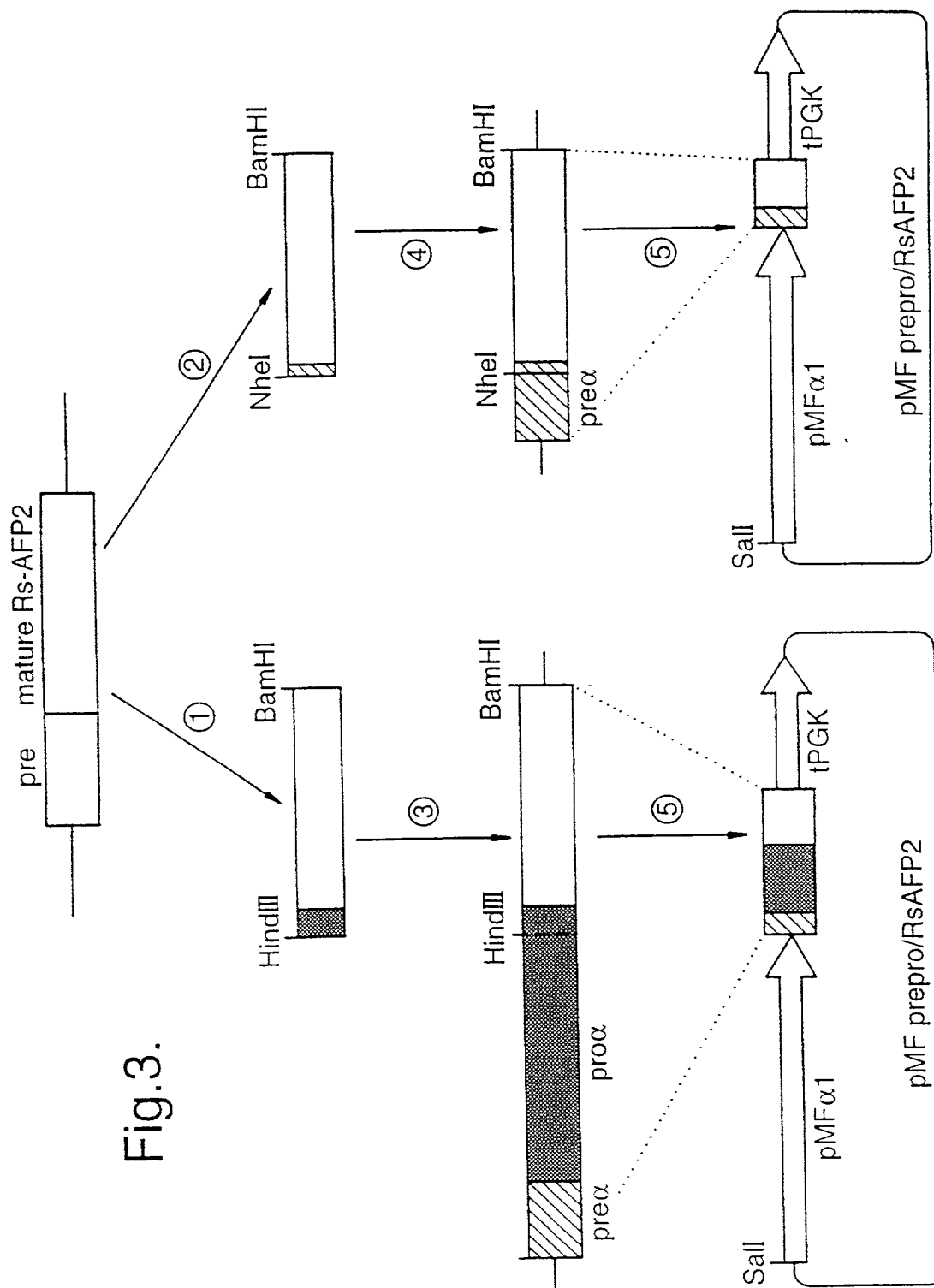


Fig.3.

Fig.4.

	1	10	20	30	40	50
Rs-AFP2	ZKLCQRPSGTWSGVCGNNACKNQCI RLEKARHGSCNYVFP AHKCICYFPC					
yRs-AFP2	Q.....					
SIα2	-RV.MKG.AGFK.L.MRDQN.AQV.L-Q.GWGG.N.DG.M--RQ.K.IRQ.					
<u>SERIES A</u>						
yRs-AFP2/Q5M	Q...M.....					
yRs-AFP2/T10G	Q.....G.....					
yRs-AFP2/W11S	Q.....S.....					
yRs-AFP2/G16M	Q.....M.....					
yRs-AFP2/A31W	Q.....W.....					
yRs-AFP2/Y38G	Q.....G.....					
yRs-AFP2/F40M	Q.....M.....					
yRs-AFP2/K44Q	Q.....Q.....					
yRs-AFP2/Y48I	Q.....I.....					
<u>SERIES B</u>						
yRs-AFP2/T10A	Q.....A.....					
yRs-AFP2/H33A	Q.....A.....					
yRs-AFP2/Y38A	Q.....A.....					
yRs-AFP2/F40A	Q.....A.....					
<u>SERIES C</u>						
yRs-AFP2/P7-	Q.....-					
yRs-AFP2/P41-	Q.....-					
<u>SERIES D</u>						
yRs-AFP2/P7R	Q.....R.....					
yRs-AFP2/G9R	Q.....R.....					
yRs-AFP2/S12R	Q.....R.....					
yRs-AFP2/I26R	Q.....R.....					
yRs-AFP2/L28R	Q.....R.....					
yRs-AFP2/N37R	Q.....R.....					
yRs-AFP2/V39R	Q.....R.....					
yRs-AFP2/A42R	Q.....R.....					
yRs-AFP2/I46R	Q.....R.....					
yRs-AFP2/F49R	Q.....R.....					

OWB41: AATAAGCTTTGGACAAGAGA	<sup>1</sup> Q	<sup>2</sup> K	<sup>3</sup> L	<sup>4</sup> C	<sup>5</sup> Q	<sup>6</sup> R	<sup>7</sup> P		
	CAG	AAG	TTG	TGC	CAA	AGG	CCA	AG	
	CAG	AAG	TTG	TGC	ATG	AGG	CCA	AG	
	Q	K	L	C	M	R	P		
	<sup>3</sup> L	<sup>4</sup> C	<sup>5</sup> Q	<sup>6</sup> R	<sup>7</sup> P	<sup>8</sup> S	<sup>9</sup> G	<sup>10</sup> T	<sup>11</sup> W
	TTG	TGC	CAA	AGG	CCA	AGT	GGG	ACA	TGG
OWB42: TTG	TGC	TGC	CAA	AGG	---	AGT	GGG	ACA	TGG
	L	C	Q	R	-	S	G	T	W
	<sup>7</sup> P	<sup>8</sup> S	<sup>9</sup> G	<sup>10</sup> T	<sup>11</sup> W	<sup>12</sup> S			
	CCA	AGT	GGG	ACA	TGG	TCA	GG		
OWB43: CCA	AGT	AGT	GGG	GGT	TGG	TCA	GG		
	P	S	G	G	W	S			
	<sup>8</sup> S	<sup>9</sup> G	<sup>10</sup> T	<sup>11</sup> W	<sup>12</sup> S	<sup>13</sup> G	<sup>14</sup> V		
	AGT	GGG	ACA	TGG	TCA	GGA	GTC		
OWB44: AGT	GGG	GGG	ACA	TCC	TCA	GGA	GTC		
	S	G	T	S	S	G	V		
	<sup>13</sup> G	<sup>14</sup> V	<sup>15</sup> C	<sup>16</sup> G	<sup>17</sup> N	<sup>18</sup> N	<sup>19</sup> N		
	GGA	GTC	TGT	GGA	AAC	AAT	AAC	GC	
OWB45: GGA	GTC	GTC	TGT	ATG	AAC	AAT	AAC	GC	
	G	V	C	M	N	N	N		

FIG. 5A
FIG. 5B

FIG. 5

FIG. 5A

<sup>35</sup> S	<sup>36</sup> C	<sup>37</sup> Q	<sup>38</sup> Y	<sup>39</sup> V	<sup>40</sup> F		
TCT	TGC	AAC	TAT	GTC	TTC	CC	
OWB77:TCT	TGC	AAC	GGT	GTC	TTC	CC	
S	C	Q	G	V	F		
<sup>36</sup> C	<sup>37</sup> Q	<sup>38</sup> Y	<sup>39</sup> V	<sup>40</sup> F	<sup>41</sup> P	<sup>42</sup> A	
TGC	AAC	TAT	GTC	TTC	CCA	GCT	C
OWB47:TGC	AAC	TAT	GTC	ATG	CCA	GCT	C
C	Q	Y	V	M	P	A	
<sup>37</sup> Q	<sup>38</sup> Y	<sup>39</sup> V	<sup>40</sup> F	<sup>41</sup> P	<sup>42</sup> A	<sup>43</sup> H	<sup>44</sup> K
AAC	TAT	GTC	TTC	CCA	GCT	CAC	AAG
OWB48:AAC	TAT	GTC	TTC	---	GCT	CAC	AAG
Q	Y	V	F	-	A	H	K
<sup>40</sup> F	<sup>41</sup> P	<sup>42</sup> A	<sup>43</sup> H	<sup>44</sup> K	<sup>45</sup> C	<sup>46</sup> I	
TTC	CCA	GCT	CAC	AAG	TGT	ATC	TG
OWB49:TTC	CCA	GCT	CAC	CAA	TGT	ATC	TG
F	P	A	H	Q	C	I	
<sup>45</sup> C	<sup>46</sup> I	<sup>47</sup> C	<sup>48</sup> Y	<sup>49</sup> F	<sup>50</sup> C		
TGT	ATC	TGC	TAC	TTT	CCT	TG	
OWB50:TGT	ATC	TGC	ATC	TTT	CCT	TG	
C	I	C	I	F	C		

FIG. 5B

Fig.6.

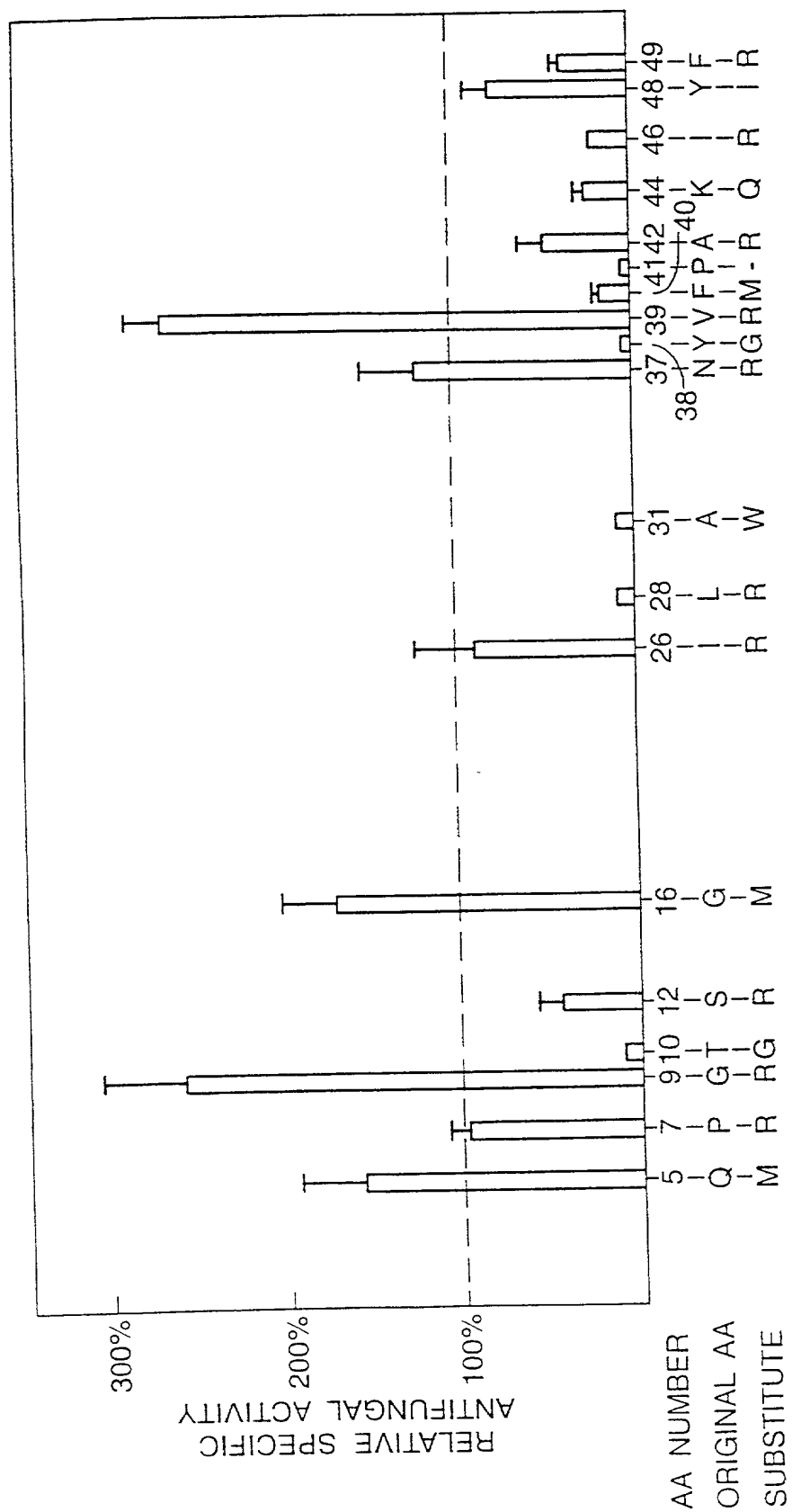


Fig.7.

